

NEWSLETTER OCTOBER 2006

FY2007 RESEARCH PROGRAM

The Arizona Transportation Research Center (ATRC) fiscal year (FY) 2007 research program was approved by the Federal Highway Administration, effective October 1, 2006. The approved program includes 13 new research projects as well as funds budgeted for the small budget program. A total of 77 research projects and 14 research support programs were included in this year's program. The ATRC budget also supports the Arizona Department of Transportation (ADOT) Transportation Research Board dues, the National Cooperative Highway Research Program contribution, the ADOT Local Technical Assistance Program, and the ADOT product evaluation program. Following is a list of the FY2007 projects.



- SPR-624, *Hazardous Materials Transportation in Arizona*
- SPR-625, *Safety Enhancements for Median Crossovers*
- SPR-626, *State Route 64 Wildlife Accident Reduction Study Monitoring*
- SPR-627, *State-of-the-Art Evaluation of Traffic Detection and Monitoring Systems*
- SPR-628, *Evaluation of Maintenance Strategies for ADOT*
- SPR-629, *Analysis of Capacity and Operations after Retrofit Improvements of Happy Valley and I-17 Roundabout Traffic Interchange*
- SPR-630, *Critical Review of ADOT's Hot Mix Asphalt Specifications*
- SPR-631, *Evaluate Warm Mix Technology for use in Asphalt Rubber – Asphaltic Concrete Friction Courses (AR-ACFC)*
- SPR-632, *Development of Materials for Repairing AR-ACFC Surfaces*
- SPR-633, *Economical Concrete Mix Designs Utilizing Blended Cements, Performance Based Specifications, and Rational Pay Factors*
- SPR-634, *A Platform for Evaluating Emergency Evacuation Strategies*
- SPR-635, *Improved Efficiency Through Driving Simulator Training*
- SPR-636, *"Heat Island" Effect of Pavements*

SMALL BUDGET RESEARCH PROJECT UPDATE

The ATRC small budget program sets aside \$100,000 each year for research studies with budgets of \$15,000 or less. Four new small budget projects have been approved and funded during the last quarter.

- SPR-637, *Cost/Benefit Analysis of Electronic License Plates*
- SPR-638, *Research for Mobile Source Air Toxics (MSATs) in Maricopa County*
- SPR-639, *Effectiveness of Various Pre-Emergent Herbicides*
- SPR-640, *Cost-Effectiveness of Mobile Enforcement*

COMPLETED PROJECTS

ATRC published three research reports during the last quarter.

SPR-460, Evaluation of Cold In-Place Recycle Methods

Project Manager: Christ Dimitroplos
tel: 602-712-7850; email: cdimitroplos@azdot.gov

SPR-510, Performance of Various Types of Bridge Deck Joints

Project Manager: Christ Dimitroplos
tel: 602-712-7850; email: cdimitroplos@azdot.gov

SPR-578, Evaluating and Improving the Dyed Diesel Education and Enforcement Program

Project Manager: John Semmens
tel: 602-712-3137; email: jsemmens@azdot.gov

The reports are available online at:

http://www.azdot.gov/TPD/ATRC/Publications/project_reports/index.asp

NEW STAFF



ATRC recently welcomed Jason Harris as its newest research project manager. He first joined ADOT in 1998 as an intern and was accepted into ADOT's Engineer-In-Training (EIT) program the following year, where he spent 24 months working in various organizations throughout the State. To date, Jason has worked in a dozen different organizations within ADOT in the areas of planning, design, and construction.

Prior to joining ATRC Jason spent a year working as a Project Engineer for the City of Chandler's Construction Management team, where he was directly involved in various types of construction projects including a new City office building, expansion of a heliport, new City-owned utility installations, and a \$10M design/build project for improvements to Gilbert and Pecos Roads.

ATRC Staff

Frank Darmiento, M.S.E., P.E. –
Manager

PROJECT MANAGERS

Christ Dimitroplos, P.E.

Jason Harris, P.E.

Tom Kombe, Ph.D., P.E.

Steve Owen, P.E.

John Semmens, M.A., MBA

Dale Steele, M.A., M.L.S. – Librarian

Christopher Gass, B.S. – Data
Technician

Jeremy Sala – Engineering Assistant

Robert Robbins – Library Assistant



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MISSION: The ATRC mission is to pursue and share knowledge in transportation systems and programs.